

RRRE

II

7530-00-222-3521
FEDERAL SUPPLY SERVICE

(GPO)

Polochic Coffee Project - 195

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-or
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-o-
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EE44

maritza + Sergio
0519287

- Kekchi -

"Yo soy un amigo" La in jun la cuamig

"No tengas miedo" Mat xucrack

Hepatic Tanager ♀ Dulce Nombre 3/22 Pine 15/22
Gleams, sallies, probes.

• Golden brown underparts - lightest in vent & chest
• Grayish upperparts incl eye & auricular areas
• Call ~ KOWA

3-23 YAWA Following - Dulce Nombre made

6:30 1st chase citrus 2m 3/7 1

2 " " " " " " 10

3 Mama of a " Citrus " 20

4 Saw contact Cit 20

5 Mama display Cit 20

40 foraging pseudo citrus 4/7 1

45 for. 6/8 1

50 for/pat 7/8 cedrella 1

55 pat pseudotel 8/8 1

7:00 for/pat 6/7 hdl 1

05 rest of cedrella 1

10 pat bare tree 12/13 1

14 2 chases 0.5 (1. chase) cassia 3/4 1

20 forag cassea 5/6 1

20 lost cedrella forag 1

25 lost 1

30 cedrella forag 9/9 1

35 bare tree 1/3 forag 1

40 cassea 4/5 forag 1

45 display with forag 3/4 1

50 lost 1

55 cedrella (bankill fr. ps cit) 2/9 forag 1

- 8:00 cedrella (same) foraging 6/2
- 01 chased by mawa?
- 05 cedrella (corner) 2/9 foraging
- 10 " (psitt) psitt. for
- 15 cedrell (psitt) foraging 6/2
- 17 LEAF CHASING YAWA
- 20 ps. ch. for. on left 1/6
- 25 cedr. (corner) nest/for
- 30 same
- ↓
- 50 same

STOP - TOO HOT

Flowers, Bird spp., #Flowers/Bird/Visit, next trees visited
 INGA FOCAL FLOWER FALANDERING. 3/24
 SAN ANTONIO 2 Ingas 400 + 650 + 1050 ≈ 1100
 Flowers total ≈ 1100, "Small labeled" Inga
 #Fl trees/ha: Bird spp. in area
 #Inga/ha:
 start time 6:30 stop 9:20

timed 8min. 65 flowers flew to Inga (then left)
 insects as well (3) 7:36-44
 cropenidules flying right over the area
 rtha feeding on trees w/ less flowers close (5fl/visit)
 foraging directly behind Inga trees (foliage grazing)
 mehl's nearby, but not visiting
 not many flying insect pollinators nearby either
 nectar resources depleted?
 2. g+g } no feeding
 3. GSD

How propagate Inga?
 g+g as Inga foragers?

- 4. mehl 9:15-4 6 flowers 1min
- 5. 2 chos 9:15-4 no feeding observed
- 6. mehl 9:18-20 6 flowers

Sunny, HOT 3/25

Sun Coffee - CONCEPCION - (More 1st Round)

1. 3425 / 619 ~~111~~ ~~111~~ (111)
 mawa h cof 2 br 1/5
 wawa h cof
 2 rows 1.6 / 1.7 cof br
 Inga 1.2 / 1.5 cof leaf
 oca h cof
 Inga 3m, 1 } cof 1.8m
 Citrus 2.5, 1 } 50% Fr
 unkn 3, 1 } 60% Fr } 3% cc 90% dew
 mimosa 3, 1 }
 eryth 2, 2.3m }

2. 3340 / 635 (112) ED = Beneficio 75m
 2 mehl cof 1/2 } Inga 3 3m } 2% cc
 rwa h cof } mimosa 1 4m } (acacia)
 wath h cof 1/2 } cof 1.7m + buds
 mawa 1/2 cof leaf } 75% dew

3. 3220 / 650 (113) ED = Semishade Card 175m
 amb vain 8/1.5 } ery 3m, 2 } 1%
 "citrus" 2.7m, 1 }
 cof 25% + buds 1.7m

4. 3220/706 (114) }
 ntdo 3 0/2 }
 2 ery 2.9m }
 4 Inga 3.5m } 2%
 30 }
 "colens" 3, 1 }
 cof 1.7m + buds 90%

5. 3190/726 (115) }
 2 unku 1.5 }
 1.5 cof change }
 1.5 Inga 2.1 }
 2.1 br cof 80% 5% FT }
 wawa h cof 1.2 }
 25 }
 ED = 1.8m man. shade card - 1.8m

ACCESS CARDAMOM

6. 3195/747 (116) ED 40m man sh. card
 mebl h }
 beano h }
 1.5 h cof }
 Inga 3 3m } 2%
 eryth 1 2.7 }
 cof 2.3m 5% FT }
 85% 5% FT

7. 3220/804 (117) }
 4 y fgs 2.7 }
 2/2 cof bo }
 (mama) }
 ED }
 150m man shd card }
 10m - small mett }
 ~ 1/5 h }
 cof 5% FT 1.7m }
 75% }
 Inga 2, 2.8m } 2%
 om 1, 2.7 }
 ink 1, 2.6 }

8. 3140/824 (118) }
 (mebl) }
 cof }
 ED = 150 man sh. }
 card. }
 ery 3 3.5m 5% FT }
 gli 1 3.5m 10% leaf } 2%
 ing 1 3m }
 cof 2.0m 85%

9. 313/2890 ITS NOT TOO HOT YET
 (119) BUT STILL NO BIRDS (24)
 ED = 175m man }
 Semish. card = 175m }
 cof 1.1m 25% }
 5% }
 Inga 2, 3m }
 cof 2, 3.5m }

RECENTLY THINNED from ~30%

Tree samples to get

- 3 Ingas
- Christmas Tree - Pseudoheliconia
- Cola de Pavo
- Heliconia
- "Starfruit"
- Clusia

Forest Remnant - ChicoBAN - Hazy Sun 3/26
 - Foliage bleacher - sound like rapid stamp Night. When
 P+1. 2740/625 ALTITUDES - 900

Zhtat h }
 Leafscraper 1/5 or (obsp?) see files }
 Nobe h 1/4 }
 btgn h }
 wldw h }
 2 gewah ovenh }
 (gaja)
 Lobsp h }
 leg h }

(13)

100 d. steps

Pt 2 2890/641

(14)

erfl-h ^{10/21} ^{bdl} double? raspy note? Sishes

clfl h

uwah ^{3/1}

grja 15/23

btgwh ^{11/20}

~~erfl-h~~ 2 ~~clfl h~~

gowa
wuwah ^{2/3}

(Suta)

lay h

Pt 3. 40m from logging 2985/708

Eybl ^{15/22}

(R)

like s ^{7/13}

(ibwo)

howa h near gap

gtwh gap edge

grea h

(manan clap)

3 → 4 237°
passance fall

Pt. 4 2930/729 on path

(16)

(ybl)

btgwh ^{7/11} hold

wuwah

uhu

(bsat)

start on path }
go up path to ridge
start descent; take r (fly)
2 40m - points

(17)

Pt 5. 3000/749

low scale logging - gaps

2 r tat

2 sbwr

obsp

2 grja

wiwas ^{5/9} br

mgwah ^{2/4}

mawa h

2 uwah

(buno)

Pt 6. 110 step 2960/803

(18)

bigw h o a

3 otpa h

ibwah

2 r tat

2 grja

mgwah ^{0.5/3}

mxl Alk

2 bwa o a

coth

2 obsp

cihas ^{6/7} bdl

gowa s ^{7/7} tr

gray col becard ♀

- dark cap

- breast yellowish buff

- cin. upperparts ; dif song

(19)

Pt. 7 2940/821

2 bhsah
2 wbrwh 0.5/s
grrah
grrwh
mati 7/8 bdl

100 steps ^{of} ^{thicket}
→ btwe!
(woodcreeper) - melan stripe
darkish bill ^{rightly} spotted/streaked
back; spotted head, spotted
breast; melan stripe
- a bit smaller than ibwo
- not as black as ibwo

Pt. 8 2830/842

(20)

wbrwh
grrwh

VEG SAMPLING FOR. hem. 3/26

Pt. 8 (20)

ED: ~~100m~~ 100m Pl. Shade coffee

3 HTIII mic
4 HTIII pipit mic
5 HTHTIII 4II "Piper"
6 HTHTIII Pipit, unkl A, larsena
7 HTHTIII Pipit, willow
8 HTHTIII larsena, pipit
9 HTHTI "willow", unkl A
10 II
11 I "willow B"
12
13 I

90cc > 9m 35%

understory
85% 100% 1m mixed
v7 15% shrubs

Tree #91

Tree Sp 32

22 I
23 I

Pine

Pt. 7 (19)

ED = 125m Plant Shade Coffee

3 HTIII
4 II
5 HTHTIII
6 HTIII
7 HTHTHTIII
8 HTHTHTIII
9 III
10 I
11
12 II
13 I
20 I
23 I

elep ear, mic
"Piper"
eleph ear
mic pipit
elep ear, pipa, unkl c
unkl A, xyl, unkl c
unkl B, pipit
leg A
grrgrah

understory
tg 1m 85%
shrubs 1.5 10%
shrubs 2m 5%

Tree #66

Tree Sp. 30

3 HTHT P+6
4 HTHTHT III
5 HTHT
6 HT
7 HTHTHT
8 HTHT
9 HTHTHT

pipit xyl
mic, el ear, pip
el ear, xyl, mic
pip
el ear, mic
xyl
unkl A, xyl

vitropan

ED = 150m Plant Shade Coffee

90cc > 9m 30%
understory
tg 1m 50%
shrubs 1.5m 50%

10 II
11
12 I
15 III
13 I
17 I

unkl B

unkl A

Tree Sp 32?

Tree #61

rema

point heavily disturbed yet, -o/wo
much further insulated

P+5 (17)

ED = 225 Plant. Shade Coffee
90cc 30% 30%

- 3 MI
- 4 HHT mic
- 5 II
- 6 HHT pip, palm, mic 60% fr
- 7 HHT HHT xy, mic
- 8 HHT mic 70% fr, xy, pip
- 9 II banana
- 10 HHT III banana, xy
- 12 II 90% fr, xy understory 50% of pt in dense
- 13 II 80% fr 3-4 m tall shrubs
- 18 II Tree sp 32 pine (i.e. can path) 40% shrubs 2m area: 50% 20% by 1m

P+4 (16)

ED = 175 Plant. Sh. Coffee

- 3 HHT mic
- 4 III mic
- 5 III pip
- 6 III pip
- 7 III mic
- 8 HHT II mic 90% fr, xy
- 9 HHT pip
- 10 III xy
- 11 III
- 12 II xy 17 l
- 13 l Tree sp 36? 18 II
- 14 l Tree # 31 25 l
- 15 20 l
- 16 22 l

for ED = all points & some except pts 1, 2 (closed) & pt 5 (furthest) - 75 m

P+3 (15)

ED = 275 Plant. Shade Coffee

- 3 HHT pip, mic
- 4 HHT HHT III mic 90cc > 10m 50%
- 5 HHT II xy, pip
- 6 III
- 7 HHT HHT HHT pip
- 8 HHT pip
- 9 I
- 10 III
- 11
- 12 II obovate
- 15 HHT obovate
- 18 HHT (III) xy, bur, obovate
- 20 (III)
- 22 I

Tree # 69 Tree sp 54?

P+2

ED = 175 Plant. Semi Sh. Coffee

- 3 (19) am-re 90cc > 10m 75%
- 4 III pip shrub 75% 1.5m
- 5
- 6 III pip
- 7 HHT HHT
- 8 HHT HHT pip
- 9 HHT II leg, pip
- 10 II
- 11 II
- 12
- 13 II
- 15 HHT
- 18 HHT I
- 20 I Tree # 58
- 25 I
- 22 III Tree # 51?

Pt 1 (13)

3 12

4 IIII (111)

5 IIII

6 71

7 IIII (11)

8 IIII

9 IIII

10 III

11 II

12 IIII

15 1

18 III

20 7

22

25

ED = 75m Planted Semi Shade Coff
90cc 210m 30%

IIII
PIP
xy |

shrubs 2m 40%
15 35%

obovate = dusca

xy |

cacao
"cacao"

cacao, obovate

humera

Tree #3 59 Tree Sp 45

ESPERANZA - 2ND DAY

3/27 Foggy/Overcast; Wet leaves

11. 2630/647

adwa ing 8/9 br
(ybae)

Inga 18, 8m, (70% FI, 4m) 20% FI pt. } 30% cc

cpa 1 9m, 90% Fr

cof 1.7m, t. buds, 40%

herbs o.i 30%

ED = 150m Sun Coffee

10. 2525 / 712

bhsa ing 2/3 br

ceroh

rewah

zuehl ing 6/7

Inga 9, 8m (2/9 FI 75%) 20% FI, 30% cc

cof 2.1m, 5% FI, 50%

herbs o.i 30%

ED = 75m Sun Coffee

12. 2545 / 735

5 btpw ing 6/7 leaf

6 tewa " 7/7 fl

wawa o.a cof 1/2

mama o.a cof m

rawa ing 5/2 br

zuehl h

onths ing

mbw o.a ing 8/8

Inga 18, 7.5m, (1/18 FI 70%) 20% FI, 35% cc

gh 1 6m 5% leaf

cof 50% 2.1m

herbs 5% o.i

ED = 125m S.C.

at least 30%

urd flock

(bwha)

13. 2475/757 ED S.C. 75m
 cece s ^{7/8} by ^{7/8} br
 inga 17, 7m, (^{7/17} 40% FI), 15% FI, 40% cc
 other unknowns
 cef ^{30%} 40%, Am, -
 herba 10%

14. 2355/812 ED = 150m S.C.
 btgnh inga ^{7/8}
 (rbp: 3 wtdo)
 inga 13, 7m, (^{7/13} 50% FI) 20% FI, 30% cc
 other unknowns
 cef 1.5m 10% FI 30%
 herba 0.1 40%

15. 2280/840 ED = 200m S.C.
 14 mebl inga ^{7/8} flo
 ches ^{7/8} by ^{7/8} br
 inga 14, 7.5m, (^{9/14} FI 30%), 55% FI, 45%
 ghi leaf 25%
 cof 1.5m 65%
 herba -

16. 2250/904 ED:
 btgnh ^{7/8} by ^{7/8} inga (ybor)
 vltm ^{7/8} by ^{7/8} inga (ybor)
 yipfl h ^{2/2} cof
 vltm ^{7/8} by ^{7/8} inga (ybor)
 cof 1.7m 75%
 55% cc
 inga 12, 7m, (^{17/12} 60% FI) 30%
 other -
 cof 1.7m 75%

17. 2290/922 ED = 700m S.C.
 wtdo h
 mebl s ^{4/5} gur
 vltm s ^{5/7} by
 vltm h
 F
 inga 24, 7m (^{24/24} 70% FI) 25% FI
 35% cc
 other
 cof 1.9m, ^{62%} 70%
 - some thinning
 herba -

Return from house Esperanza to Tucuru via
 Finca Delicia y Concepcion:
 Nice photo ops!!
 * yewa ♂ a ghi ^{3/4} in Sun Coffee 1027am
 chase Mawa ♂ a 1m off tree
 * Mawa arrived in ghi from ~20m away in
 coffee, was present in ghi w/ yewa for ~1/2 min.
 (higher than yewa mostly), then was chased.
 Why would a mawa fly into a tree which
 it "knew" had an aggressive competitor?? Just
 to "test its aggression level" out?? Is this
 what mawas are capable to do more than other
 subordinate spp.?
 * Ho Baor ♂ a - feeding on inga 5m (big flower), 10% FI
 - seems sluggish; bill open-hot
 - no other orchids in sight or sound
 - seemed to forage from almost every flower,
 methodically making the rounds around the whole
 tree
 - flew to neighboring ingas for ~1/2 min then
 flew further off out of sight

1 cab = 64 manz = manz = 16 cuerdas
 cuerda = 20m

manz = .7 ha

Fruit Tree Festival - Esperanza 3/16 pm
 Altamira Orioles (~3) in Spot Breasted
 Orioles (~4) in

How is Guazuma dispersed? (2ndarily via
 mammals - rodents?)

Chrysophylla sp. - golden leaf

3/28 YENA following "Delicia" ♂

in tree clump

| | | | |
|-----|-----------|--|-------------------------------|
| 630 | gli | 2/8 foraging | |
| 35 | | same | |
| 40 | | } nysa 2/8 for - not aggressive toward other birds | |
| 45 | | | |
| 650 | infa | 2/8 nysa foraging | (loss of potential intruders) |
| 52 | chase | Chrysophylla | |
| 55 | nysa | (mimosa) 2/8 foraging | |
| 700 | nysa | 2/8 pat/for | |
| 05 | gli | 2/8 for/pat/chase | |
| 10 | "cpa" 2/3 | resting (outside of tree clump) | |
| 15 | pat | (en route to galeras) | |
| 20 | cef | 1/2 for (near galeras) |] WRONG BIRD] |
| 25 | same | | |
| 30 | same | | |
| 740 | gli | 3/4 announcing | (back toward bamboo) |
| 45 | eryth | 3/4 foraging | } manz chases (2) |
| 50 | gli | 3/5 | |
| 55 | eryth | 3/4 foraging/pat | (back toward galeras) |

announcing

| | | |
|-----|--------|---|
| 800 | eryth | for/pat (toward initial bamboo) |
| 85 | " | ("Roberto's House/Olive tree") foraging 2/3 |
| 10 | | same |
| 15 | } | cef nest 1/2 |
| 20 | | |
| 25 | eryth | ("Olive Tree") for 2/3 |
| 30 | cpa | cep 1/2 rest |
| 40 | | |
| 45 | cef | (20m to west) 1/2 for/rest |
| 50 | flight | toward center of territory |
| 55 | | lost |
| 910 | | stop |

variables age sex date etc

territory size (map)

total distance

flights / total time (not include lost)

activity budget

activity / total activities recorded

% time on coffee : % time on trees

chases

- spp chased

- distance of chase

- outcome flew away

dropped down

spp chase - not much effect

Chrysophylla?



~~TANJUNG 3/22 2nd Route 620~~

1. 10 Tawa iya 2/9 fl 85% fl

2 bhsah iya

2 mawa h iya 5/7

ytar h
umhuh

2. barz iya 5/7 iya fl 95% high sep. chup

4/3 mehl fl

fl bar h

caf 20% fl 2.2m

card 2m

iya same, (all bot 6 fl @ 85%), 70%

2. 638

deff iya 3/3 br

4 bhsa hel 7/8 br

bisgaw: 6/2 iya leaf

v bar h iya

bisgaw 6/2 leaf

2 mehl h mt 7/7 br

bisgaw

197

198

mehl iya 2/2 fl

iya (6 no fl 80%) 70%

cc = 80%

caf 25% fl 2m

3. 703

1 mawa fl 7/7 leaf

2 tawah iya

cecoh

bisgaw

umhuh iya 4/7 fl

bisgaw iya 4/7 br

over h caf 2/2 br

3 mehl 5/6 iya h

chor iya 7/8 br

199

iya 6 no fl 50%, 40%
cc 80%

caf 2.2m, 25% fl

4. 719

chor iya 6/7 br

2 senek

fl bar h und 7.5/8 br

(poo)

(how)

200

iya (6 no fl 90%) 75%

caf 40% fl 2.2m

herbs same

~~25%~~

5. 736

mawa fl 1.5/1.5 sep leaf

2 mehl iya 7/8 br

plur h

reca

rdm s iya 5/6 fl

tawah

201

iya (2 no fl 85%) 80%

caf 1.8m 20% fl

25% on 1.5m wds

6. 753
 6 Temata rya Pl 7/2
 bayuh 1/8
 manwa bambu 3/2
 mebl h
 rbaeh 5/6 rya Pl
 over up 1/2

all Pl
 rya 90%
 cof 15% Pl, 2.2m
 wds 1.m

(200min/chase)

Chases 1
 other data sheet Temu left terr 5m

imm → terr. size .25 ha total time obs - 180min
 total flight dist - 423m total activities recorded - 31
 total flights - 33 (13.1m/flight) foraging - 21
 (5.5 min/Pl) patrolling 5
 preen 1
 rest 4

chases 3

| type | spp | dist | |
|--------------|-------|------|-------------------------|
| displacement | mbu? | 15 | total time in cof: 8min |
| " | mbu? | 3 | " " trees - 172 |
| contact | manwa | 7 | (60min/chase) |

7. 810
 bayuh rya 7/9
 rbaeh

903
 rya all pl 70%
 trema no pl
 cof 5% Pl 2.5m

immature
 terr size .25 ha total time - 175min
 total flight dist - 422 total activities recorded - 31
 total flights - 29 (14.6m/flight) foraging - 25
 chases - 4 (60min/Pl) patrolling - 4
 preen - 1
 total time in cof 15min
 " " in trees 160min

| spp | type | dist | type |
|------|------|------|--------------|
| left | | 2 | displacement |
| left | | 7 | intimidation |
| left | | 5 | displacement |
| left | | 3 | intimidation |

8. 829
 (2 bambu)
 wds h cof
 rbaeh } in rya
 rhu }
 unwa cof
 bayuh 7/9 rya bef slo?

3 rya no pl 70%
 cof no pl

YENA Summary → imm →
 total flight dist 450 (16.5m/Pl) total time - 200min
 " flights - 39 terr. size .25 ha (4werdas)

total activities recorded - 34
 foraging - 25 total time in coffee 20
 patrolling - 6 " " in trees: 180
 resting - 4
 ter. display - 1
 (5.1 min/Pl)

ad terr size .25 ha total time - 190min
 total flight dist - 918 (2.4m/Pl) total activities rec: 39 (31.7min/chase)
 " flights 78 (11.8m/Pl) foraging - 25
 chases 6
 manwa 3m
 " 7m
 " 10m
 " 12m
 bwa 20
 displ -
 displ.
 contact
 intimidation
 disp.
 patrolling - 10
 resting - 3
 chase - 1
 time on cof: 25
 elsewhere 165

Da Flight/

6.7 min/chase
6.7 min/chase
6.7 min/chase

#5 ♂ a terr. size = .25 ha tot. time = 65 min
total flight list = 176 (12.6 min/flight) tot. activities rec = 14
total flights = 14 foraging = 10
chases = 0 (4.6 min/flight) patr = 3
time in cof = 15 rest = 1
50

#7 Dulce Nombre

total act. recorded = 29
foraging = 22
resting = 3
patr = 2
chasing = 2

#8 Delicia

total act recorded = 25
foraging = 14
patr = 3
rest = 6
chase = 1
ter. displ = 1

#9 activity/body total time = 80 min
total act recorded = 14
total dist = 173 m Foraging = 7
" flights = 13 (13.3 min/flight) Chasing = 6
6.2 min/flight patr = 1

- total chases = 18 / 120 min = 6.7 min/chase
- 1. mawa ♀ from both observation periods
- 2. mawa ♀
- 3. 7 b + gw ♂ (5x)
- 8 mawa ♂ 5m
- 9. teva 0.5 displ.
- 10. teva 30 displ
- 11. teva 0.5 displ.
- 12. teva 0.5 "
- 13-15. teva 0.5 ea. "
- 16-17. teva 0.5 intim. (via call)
- 18. teva ♀

Bequel 3/30 (40% PR) Sunny, breezy
1. 2535/643 (90% PR) Prowling
(g + p) 30% occ inga q (960% PR) 20% PR
24 pin fr 95% cof -- 1.6m 70%
herbs 0.1 15%

2. 2510/658 (bemo) 25
Yuda 17/18 unk br inga 8 2/8 30% 10%
2. Tawa h cof 1.9m + buds
vnhuh cc 55%
penah herbs 0.1 35%
cof 60%
pin fr 95%

160

(Chachalaca)

3. 2535/720 (26)

Yema ♀ 5/6 unk FI 10% br ^{Bud} 80%
Cero ♂ 3/6 " " br
2 bhsa ♂ 6/7 " FI
Choc ♂ 1/9 leafless tree br (also flowers of unk)
unhuah cof 1/2

(bhu)

3 mehl same unk

ingya 7 (3/2 60% FI) 20% FI
cof 2.1m, 65%

CC 65%

~~unc~~ → unk 15% FI, 70% ^{Bud}

4. 2565/743 (27)

yba h
rewah

unhuah

mehl ingya 7/6

r bach - 3/3 inner stamp

Suzan hawk in tall legs, brown haired tail, eye line

(in br) yellow cere, long tail

ingya (5 Flower 25%) 15% FI
cof - 7.8m
herbs sand
90 CC 45

5. 2775/811 (28)

2 rewa h

2 yuta dead stamp 13/14

unhuah

ingya (8 Flower 50%) 20% FI
cof .75m 15%
herbs 2/0% 0.1m

~~new (coffee and herb) transplants~~

90 CC 35

(29)

GUADAS

6. 2250/227

choc s cupam?

2 yfwo same Tr



" 1/20 90% ~~FI~~

CC 65%

ingya (4 Flower 70%) 50%
cof 2.1m
5 less bananas
herbs some

7. 2740/843 (30)

2 unhu

mehl s 7/6 ingya br

yuta 5/6 unk FI 90%

3 mehl a lpa 7/9

rewa ♀ unk FI 90% 4/6

Sovi " " "

3 rewa mehl s 2 cpa 7/8 leaf 3 unk FI 90% 5/6

ingya (5 FI 50% FI) 25% FI

cof 15% .75m

herbs 70% al

CC 65%

new coffee transplants

8. 2730/859 (31)

choc s 6/7 ingya br

kywa ♀ 6/7 br

choc s 6/7 ingya br

(mehl)

ingya (4 Flower 2 90% 2 10%) 3, 70%

50% FI ret

cof 1m - -

30%

- herbs

CC 50%

- 5 bananas

5/29/95 Finca Guaxac
Requ - heard @ 5200' in Forest Reserve
Blbw a - seen in Inga 4500' w/ group
of btaw. 5:30 pm.

Collected "Star finches", Ingas
 Photos - Inga - Esperanza & Boguel
 - view of Boguel's

- People
- ~~Models~~
- ~~Guards in Retard~~
- ~~Guards in Guns~~
- ~~Half-shade Antennae~~
- ~~Antennae & Petals~~
- ~~Galeras~~
- Beneficial of Esperanza (or Elisa)

~~all in blue 80~~

INGA WATCH ESPERANZA Time
 4700 flowers Elev 1260 650-
 # P1 DRYAS in Hebeae 970
 +1500 Fawn br. Hummingbird

| | Flowers | Time | Time |
|---|-----------|---------|------|
| 1. fremda | 14 Flower | 1/2 min | 722 |
| 2. " " | 16 | " " | 743 |
| (Inga in non flowering stage) | | | |
| 3. Hthe | 8 | 10 sec | 815 |
| 4. " " | 50 | 100 | 817 |
| (mebl passing by) yelb, mawa on tree but not in flowers | | | |
| 5. frem | 14 | 1/2 min | 828 |
| 6. frem | 22 | 45 sec | 830 |
| 7. frem | 37 | 1 min | 911 |
| 8. frem | 20 | 1/2 min | 913 |

+ time of nectar production

white Hebeae

Finca Cuaxpon → ^{Rio} Matanzas → Finca
 Rabaco → F. Moxante

INGA WATCH - ESPERANZA 4/11/95
 # Leaves 2000 + 1800 - 6800 + 1000 704-
 (mebls in fuga behind) 6900
 (bwha capture + eat cicada in front of my face)
 OH YEAH!

(frem → fwha near the Ingas)
 (for zap 14/14 br 906 fr)
 cicadas 7:45
 1 mebl 8 flowers 753-5
 (acwo cochsp → Inga → enter lob →)
 (in the air BEAUTY! gl br 7/7
 stop 8:10 - MOVING ON TO MORE EXCITEMENT
 3-4th fly high over another Inga
 (sp. spec eating cicada)

YOWA BROWN UP 4/13/95 Co ~~mebl~~ streaks on ~~mebl~~ sides - melting on it.
 - Concepcion Entrance
 ♀ → Mawa gl 4/5 620 am
 Territory #1

| | Movements |
|-------------------------------|-----------------------|
| 640 Forage I 6/7 | 25m, 12, 3, 20, 8, 3, |
| 45 Rest I 4/5 | 12, 30m, 10 |
| 50 Lof Rest 1/2 | |
| 35 Lof? Lof | |
| 700 mebl I 5/6 for | |
| 05 I Green | |
| 10 I for 3/4 | |

ACWO

via simple chipping
7H chased by another σ^7a

715 GI $\frac{5}{6}$ rest

718 - flew far to east to do some boundary chipping.

- NOT THE YEAR THAT MOVEMENTS WAS CONFINED TO TORRE AREA.

- Back to Torre area to find ^{2nd} year that chased the first year.

720 I $\frac{6}{7}$ for 25 same
30 cap
35 lost? 728 - chase - σ^7a $\frac{3m}{20m}$, 20.10

\downarrow
205 shrub $\frac{1.5}{3}$ rest
10 Inger $\frac{7}{8}$ for
25 lost

BACHALIO - 2ND FOUND / Carotera

1.606
gdr h gl $\frac{5}{6}$ br $\frac{4}{5}/95$
pdr h
chor $\frac{4}{8}$ Inger br
mehl shr $\frac{2}{3}$ br
xewah bamb $\frac{5}{6}$
Inger (3 $\frac{3}{8}$ 75%) 26% herbs 25%
cuff 1.5m 15% fl

\rightarrow over 2520

2.625 $\frac{43$
mehl h
mehl s $\frac{5}{6}$
rshu h I $\frac{6}{7}$ fl
2rshu s $\frac{7}{7}$ fl ED=FR=475m
Inger (13 fl 85%) 70%
cobb 1.6m
15% fl
herbs 25%
400

3.643 $\frac{44$
2rshu $\frac{4}{6}$ I
sovi s $\frac{3}{5}$ In br
gdr h $\frac{9}{9}$ bcl
herbs 10%
ED $\frac{325}{400m}$
Inger (11 95%) 75% fl
cof 1.8m

4.701 $\frac{45$
pdr s 10% cedar br
mehl s In $\frac{8}{7}$ br
herbs 5%
ED=300 FR

5.721 $\frac{46$
brjah I $\frac{6}{7}$
rshu h I
Inger (10 1.9 59% fl)
herbs 20%

6.738 $\frac{47$
pdr s In $\frac{7}{8}$ fl
rcwa h
ED $\frac{250}{300}$ FR
Inger (9 95%) 80% fl
cobb 1.8 -
herbs 5%

7.756 $\frac{48$
2chor s bam $\frac{2}{3}$ fl
big wfl Inger br
rshu s spike
ED=FR $\frac{250}{250}$
wiva s $\frac{6}{8}$ I br

Inga 3 50% 15% of 1 total

cobb 1.6
herbs 15% c-1

8. 850

2 melbl I 6/6
rewah
begus opa 6/6 leaf I
barz In 7/7
Inbuh I 5/5
5 tewa 6/7 Pl

(49)

inga 9 10% flowering
65% Pl
cobb 1.6 m - Fl
25% dens

ED FR 250
300m

9. 824

Jayush beans 15/23
visa 1/2 in bam Pl 3/4

(50)

ED FR 250
300m

~~Inga 1 5% 10% of 1~~
inga 2 25% Pl
cobb 1.6 m
herbs 5%
cobb 5%
1.6m

Inga cadney kunsera fruit 7/8
rberoa " " " " " "

FOLIAGE HT PROFILE: Inga Coffee of
Tamahua - 4/13/95

Polochie
Valley. Guatemala

| | | | | | | | | |
|-----|-------|-----|-------|-----|---------|------|---------|---|
| 0 | 2,4,5 | 90 | 6 | 20 | 3,5 | 70 | 9 | 1 |
| 10 | 2,6 | 300 | - | 40 | 1 | 30 | 2,2 | |
| 20 | 0,5,5 | 10 | 7 | 600 | 7 | 90 | 1 | |
| 30 | 2,7 | 20 | 2,5 | 10 | 1,2 | 900 | 0,5,7,8 | |
| 40 | 1 | 30 | 1,2 | 20 | 2,8 | 10 | 2 | |
| 50 | 1,8 | 40 | 2,3,4 | 30 | 7 | 20 | 7 | |
| 60 | 7 | 50 | 2 | 40 | 5,8 | 30 | 1,7,8 | |
| 70 | 7 | 60 | - | 50 | 7 | 40 | 2 | |
| 80 | - | 70 | - | 60 | 1,7 | 50 | 1,4,13 | |
| 90 | 3 | 80 | 2,3,6 | 70 | 2,7,8 | 60 | 0,5 | |
| 100 | 2 | 90 | 3 | 80 | 2 | 70 | 1 | |
| 110 | 5 | 400 | 3 | 90 | 3,8 | 80 | 8 | |
| 120 | 7,8 | 10 | - | 100 | 2,6,8 | 90 | 1,4 | |
| 130 | - | 20 | 6 | 110 | 2,2,5,8 | 1000 | 1 | |
| 140 | 2 | 30 | 8 | 120 | 7,8 | | | |
| 150 | 6 | 40 | - | 130 | 3,4 | | | |
| 160 | 3,4,5 | 50 | 6 | 140 | 3 | | | |
| 170 | 7 | 60 | 0,5 | 150 | 2 | | | |
| 180 | 1,7 | 70 | - | 160 | - | | | |
| 190 | 1 | 80 | 1 | 170 | 1,3 | | | |
| 200 | 2 | 90 | 1,5 | 180 | 0,5,7 | | | |
| 110 | 2,3,4 | 500 | 1 | 190 | 1,8 | | | |
| 120 | 2,7 | 10 | - | 200 | - | | | |
| 130 | 2 | 20 | 2 | 110 | 1,2,6 | | | |
| 140 | 2 | 30 | - | 120 | 6,7 | | | |
| 150 | 4 | 40 | 2,7 | 130 | 2,6 | | | |
| 160 | 1,5 | 50 | 1 | 140 | 2 | | | |
| 170 | 2 | 60 | 2 | 150 | 4 | | | |
| 180 | 2 | 70 | 2 | 160 | 7 | | | |
| 190 | 2 | 80 | 2 | 170 | 5 | | | |

This particular Inga coffee plantation has not been intensively pruned in the canopy. The predominant shade spp. are Inga & banana (1st & 2nd) a mix of other less dominant planted shade trees: (Trema, Pacaya, Citrus sp, Colada Pavo, mase). Coffee plants have been slightly pruned.

BD = ~~500~~ ⁴⁰⁰ F. Rem ~~500~~ Mat.
1 1/2 ha

BACUENTO 4/6/05
1. 2630/612⁺ (32)
2. melbl to ced br 11/13
gflw h
pusta 5 Jny 6/6 bc
~~2 bigw ced~~

unknow Aⁿ - cedrella
(Inya net fl. 4) 75% fl
coff 1.8 -
grs 0.1-25%
herbs -

5. 730/2870 PRUNED
3 melbl ~~to~~ ⁵ Inya 5/5 br
(36)

BD = 250 m PR/MAT
Inya (3 flower 40%) 10%
cc% 40% 50%
coff 1.8m 90% bud
herbs -

2. 2650/633 (33)
2 urwah 1/2 ucf
s thms 6/6 Iny fl

~~280~~ = ED FR. 450^{tot}
Inya net fl 12 45%
coff 1.6m
90% bud
cc% 65%

6. 2920/752 (37)
2 melbl ~~to~~ ⁴ Iny 4/7
manah cof 1/2
welderda 4/5 Iny br ^{not} fl
32 bigw s Inya br 5/6
E. sarh
urwah cof
stewa Inya fl 6/7

BD = 250 FR/MAT
Inya 4 flower 75% tot
coff 1.7 bud 90%
herbs -
cc% same

3. 2215/650 PRUNED
(melbl) (34)

BD = FR. 250
% cc 65
(Inya fl 25.3 20%) 5%
coff 10% fl 1.7m
herbs -

7. 804/2900 (38)
(melbl)

BD = Same
- 5% cc
herbs 10% o.i
Inya (2 in flower 8%) 10%
coff 1.8m bud 50%

4. 2675/709 (35) PRUNED
bigw h Iny 5/5 br
urwah
cc% 55

ED FR 200m
Inya (flower 6 30%) 10%
3 less trees
coff bud 95%
1.8m
herbs 5%
1 less banana

8. 818/2900 (39)
fipoh
(sbor) h

BD = 200 FR/MAT
Inya (5 in flower 80%) 20%
- 5% cc
coff 1.7 10% fl
herbs 5% o.i

(40)

9. 832 / 2855 no prime
yewa 3/6 tr
pewah coff
gluon 1/2
2 (in km) chase 2 sent rbar
BD = Same
nya (9 m fl 80%) 50%
Cof 2.1m 90% bud
herbs -
nya 6/2 fl 90%

10. 850 / 2856 (41) single prime
banyu
3 Pa chuse sgt scure tall note
1 ♀ 5/12 br ~ tewa
2 tewa
2 vitor n
sawi 1/2 cup
Jell 1/2 br
Sbor s mg 5/3 br
BD Same
nya - 2 trees
(5 m fl 80%) 50%
- 10% ce
coff 1.8m 95% bud
herbs -

rbgr & eati huncera
4/7 FUNDACION 1ST DAY
1. 607 / 1100 Cloudy after
2 mebl h gli heavy pm rains - poor light
Cero 2 1/2 gli br puen
vawah
(19)
ED = 150m Pueblo
cof 1.7 60%
gli 8m
herbs -
buds 75%
leafy 60%
ce 60%

(20)

2. 1220 / 678
mama gli 7/8 br
mama h
yewa Pa 6/8 br
Agg s
(left) carca br
9/12 fr 90%
gli 7.5m 8m
corda 90%
9 locc 60%
leaf 20%
caf - 1.8 60%
60% dens

3. 1335 / 649 (21)
bija 3/7 gli
unhus
3 bhsa s gli 3/7 br

4. 1400 / 110 (22)
mebl h gli 1/7
3 (sbor)
mama cof 1/2
Cero s 1/9 br gli
(left)
gdgr h gli
(sq ch)

5. 1445 / 730 (23)
vot h
tewa s 7/8 gli
Cero s 6/7
oven h 1/2 cof
mama - 1/2 cof leaf
bija s 1/8
mama s 1/8

ED = 300m
9 locc 55%
9 leaf 35%
gli 8m
caf 1.6, bud 40%
den 50%

ED = 400m
9 locc 50
9 leaf 50%
gli 8m
caf 60%, 50% bud
2m

leaf 2/7 quabr ED = 450m
gli 7m, 45%
caf, 1.6, 60% bud

"Smel" = chrysop - 50% leaf / 40% Fruit
 Quaz = no leaves 25
 untk = no leaves 70% FT (7m)
 "sample w/ fruit" = 40% FT

6 1440 / 755
 mawa h
 boja h cacao 3/3 br
 (bepe)
 gban h
 ceto h gud
 (24)

BD 450
 gti 7m 90cc 30, 45
 cef 40%, 1.8m
 50% bud
 cacao 40% FT
 tg 20% 0.5m

7. 816 / 1425
 h tepoh gti 5/7 br
 gtag cob 2 1/2 br
 (25)

BD 450
 gti 6.5m, 90cc 50, 50% leaf
 cob 1.7, 60%, 55%
 cacao 90% FT
 quaz - FT
 psht - 15% FT

FOREST REMNANTS - ca. TAMAHU 8

1. 3470 / 642
 wbw h 1/3 untk (21)
 untk
 gawo h (bigu)
 sbw h (beeh)
 (suso) (kenya)
 2 wiwa h 1 ♀ leg 9/9 leaf
 3 cho 3 1/2 8/9

B.D. 30m sh. Coffea

Vegetation
 legume 9, 20, 8 (80% FT), 18, 9, 10
 cedr 7
 untk A 14, (C) 90 80
 untk B 10 (95 Bud)
 "laurac" - small glob-like fruits 21 (80R)
 cedr 8
 "cedr" - comp. leaves @ terminal bud 17
 untk B 14
 "C 10
 underst. - ~ forest

2. 3440 / 711
 sese (22)
 obtl
 zubw h 5/5
 leaf at stem
 gawa
 wiwa h
 ruth s 1/3
 untk A (9) 16m 10.70m
 (2) 7m Sh. Coffea
 untk B (6) 15m
 C 1 9m
 D 1 8m
 E 1 9m

wawa 0/5 } untk 13/14 leaf (C) 70
 wiwa 2/5 } f gap 15
 cmto h
 bigw h 15/15 untk
 mati 9 9/9

Pts 1-3 on patch of ~ 3 ha } bordered by
 4-5 " " ~ 2 ha } materal +
 shade coffee

(23)

E.D. 60m Sh. Cobble

3. 3470/737

scso h
2 gawa h
obfl h
wawah 1/3 shr
wbaw h
(leg)
btgw ob signing satly leg
(buck)

leg (6) 18m 90% Fl
(2) 12m

unk A 15m
lawr 12 90 Ft
unk B 6, 9, 12
90% 85

underst. for.

16 leaf

4. 3500/823

E.D. = 20m Mattoral

gcwah
2 sbwr
(parranque) unrighter
2 bhca
wbaw h
obfl s bcl 1/5 leaf
wawah 3/5 leg
scso h
(Chachalaca)
phur h
90cc 80%
underst. - forest

(24)

leg (3) 16 } 80% Fl
(1) 23 }

unk A (4) 10% Fl
- B (1) 6m, (1) 15
(2) 8m (1) 13
(1) 9.5

unk C (1) 18
leg B (1) 11m 15% leaf
(1) 16m 90 Ft
ced? 80%
x4?

(dusty) anAbid hauntra me again

(25)

comp leaves
n small ced. leaves

5. 3540/856

yken h
wawah s 7/12 unk
btgw ob - -
phur h
wawah s 3/8 unk
(gfl)

unk A (2) 8m, (1) 17m
(6) 12m
hrus (1) 12 60 Ft
leg (1) 16 80 Fl
+ yll 17m
unk A (1) 8m
underst. uds/brush
90%

"wooded mattoral" simbas 15%

90cc 50

e.d. 25m mattoral

MATTORAL 4/9 Duce Nombres

1. 2480/610

(104)

Age - 1 yr
shrubs 1.5m

2 sbwr h
bhca h
(y bca)
2 bblgh h
mbaw h

e.d. 30m planted
shade

coffee

2. 2550/625

(107)

Age: 1 yr

3 gham s 0.5/2 shr
2 bblgh 18
2 ayeh 10.5/2 shr
frem s 2/2 shr
wage s 6.5/1.5 br

shrubs 1.5m
e.d. 130m same as 1
Cordia 7m 95 Ft
unk 7m
ced 2, 4m

MICOMYA

3. 2635/640
2 baam h
bbgh
2 rusp
2 gca 1/2 cpa 1 to 25
inbau h

Age 1 yr
shrubs 1.7 m
ED = 230 same
ceer 3, 4m

4. 2710/663
2 matl pm 10/15
gca cpa 2/3
3 bhea pine 10/16

Age 1 yr
shr. 1.5 m
ED ~~250~~ 250 3m leaf
Pine 2 16m

baam h
blgr & mic ft. 2/2
2 rawn s 2/25 sh br
oven s 2/25 sh br
mebl s mic 1.2/2
bbg s 1/1 br
wese o'u 2/2 br

coyeh 2.5/1 → blgr sounds nowater.

2 fues pm 15/16 tr
25 sw h 0.5/2
259 cu

5. ~~2757~~ 2785/712
acwo s 10/13 leaf pine
2 ybeah o' s f
(chach in nearby pine)
mawah
rusp h

Age 2 yr
shrubs 2m
ED: ~~275~~ 275 Iny leaf
ceer 10 3.6m

W ARVO

howr h

6. 2825/727

Age - 2 yr
ED = Iny leaf 200m
pine 20m
cpa 5m
ceer 4m

2 bblg h
buan 2/3
gca h
entur
(cayeh)
line s orange fl 1/1
2 ybeah h 0.5/1 s br

7. 2900/749
bbg h
gca h cpa 1.5/3
2 boja 1/3 cpa
left s 2/3 cpa br
r hgr 1.5/2.5 mic ft
fremo 1/2

→ CICADAS
Age 2 yr
ED = 150 Iny leaf
ceer 1 3m
ban 5' 4m
cpa 5, 3m
10/90 fr h
shr 2m

8. 2775/807 CICADAS
2 bblg h
fremo a 1/1.5 shr
ruth f s 1.5/2

Age 2 yrs
ED 200m Iny leaf
shrubs 2.2m

9. 2760/820 Cicadas
like 1/2 shr
gca h
nawa s 1/2 leaf
ybeah s

Age 2 yrs
ED = 150m Iny leaf
shrubs 2m
banana 12 4.5m
ceer 4m cpa 3, 3m

110

18. 2820/834 CICAPOS 92° Age Int
gban h 60 Dry Cop 100%
gcah melb's cpa 2/3 br Shmb 2.2m
(Dawn) cpa 10 3m 90%
(tepo) unk 5m 50% FI

TO DO

- foliage ht profile
- Boquel Edge Dist. ~~mut 400 → 7150~~
- last day Char.
- site names for forest
- to rem. ant. veg.
- pt. #s for material
- all Peter my Suncol records are not in Sun 2 files

Oak Woodland Survey Near house 4/10 ^{east} 1875
 bemo, rcwa, mana, acwo, amie, boga, ^{oak} ^{pa} → shr 1/3
 (btgw, btgw, sigy; - oak)
 paty 13/14 oak - stem catkins
 2 medic oak br 12/14
 2 mebl
 3 tenal/oa 14/15
 2 wcpa 9/15 oak br hangin' out
 gtwo 15/18 oak tr
 3 bhsa oak
 archawk
 2 tepo 5 10/16 oak (fant trail)

Squirrels

CAIQUIRINES

GIVE PAMPHLET TO ALEX
Kasper, Pochteca, Scheds

4/11 FUNDACION 2ND DAY
1. 1425/547 (26) CICAPOS III

tepo 3/8 gln br 9cc 60%
 (plur) suga fl 80%
 3 bhsc pl 6/8 br cat dan 65%, 1.7m
 gtwo h 7/8 tr gln fl 80%
 char } gln 7/8 br % leaf 40%
 melb }
 (gban) (bott)

ED: 200m Pueblo/Amore

2. 1435/605 (27)
2 mebl & suga fl 80% 7/8

mebl 6/7 gln br gln 7.5m, 35% leaf,
 9cc 50%
 ED: 250m pueblo/potrero cat ht 2m, 80% FI,
 75% dens

- herbs

suga 80%

3 1455/624 (28)

3 bhsa cat 7/9 gln 7m, 35% leaf
 acro & gln 6/7 9cc 30
 wtdo gnd cat ht 1.7, 15% FI
 (gban) dens 25%
 herbs 0.1 25%

ED: 250m pueblo/potrero

caca - fruit

she - nothing

citrus - nada

hana 10% fr.

gve - 10% fr

4 1495/649 (29)
2 chor gli 7/8 br
wadah gud
buna s 5/9 rupa br

ED = 200m puehlof potero

gli 7.5m, 9leaf 30%
9oce 60%
cef ht 2.1m
75%FI, 70%dewa
guz 10%Fr,
cit -
rupa 80FI

5.1530/705 → cooking party!
mawapa gli leaf 7/8
leaf 5/25 leaf gli (30)
5 bhea 7/8 gli
(uro)

ED = 200 p/p

gli 8m, 9leaf 40%
9oce 55%
cef ht 2m, 90FI
70%dewa
rupa - FI
guz 10%off

6 1510 720 (31)
(unhu)

ED = 175 p/p

gli 7.5m 9leaf 45%
9oce 65%
cef ht 1.8, 70%FI
40%
frigate de palo (Faciolus sp.)
5%
herlis -
rupa - bama 10%off
guz -

741 / 1560

7. 2ybcu! - gl. 7/7.5 br (32)
(chach) - sample
mawapa leaf fru wak 3/4
2yoff guz br 5/6
mawab gli 5/7 leaf

ED = 225 p/p

myrt - shel 75Fr

gli
ht 7m
leaf 35%
9oce 55
cef ht 1.8
fl 60%
d 50%
guaz 30%off

8 1630 / 801 (33)

mawapa 6/7 gli br
guz 10Fr, cit 5%Fr
rupa 90FI

ED = 275 p/p

gli ht 7m
leaf 40
9oce 55
cef ht 1.6m
fl 20%
d 35%

9. 1510 / 819 (34)
baja 7/8 gli br
mehl h
(mawapa) after pt.

ED = 350 p/p

gli 7.5m, 40%leaf
9oce 60%
cef ht 1.8m
40%FI d60%
rupa 70%FI
bama - no har/
cit - FR

No btgw, wiwa,

4/12 Fundación Caliricidia 3rd day
- Cloudy, dark - after heavy pm rain

1. 1540 / 611

choc unk 7/9 eating cocoon (gli 5m, 35% leaf
2 " gli 7/8 br 90cc 50%

(74)

caf 1.6m, 10F1
25% den

only 1 guz 8m 35Fr
shel = 60% Fr
"mel" 70Fr
→ (8) 10 Leaf

1530 / 650

(75)

(76)

(77)

(78)

(79)

80

81

Tamaha Inga Coffee 4/13 3:00pm
 blackburn web of a feeding on Inga 7/7 85%PI
 in ^{mid} ~~at~~ ^{the} ~~tree~~ ^{tree} ~~area~~ ^{area}
 tewa, btgw 3590'
 btgw on Inga leaf unders. → lep. larvae 50mm 4/5
 pivi (D, S Inga 4/5 (distorted gray cap, white eye line)
 sori, west town (no yellow)
 (D, S (song higher & faster) Inga 6/7
 btgw on bbwa very physical contact
 Inga 4/6

FOREST REMNANTS - TAMAHA 2ND DAY
 HASTA ARRIBA! 4/14
 1. 718/4715 (26) 80%acc

2wbw h
 btgw stretch
 bhe h
 cbta h
 can - ave to 12m
 high thin descending
 clear song
 no noise - 20%
 at

LOTS OF MOSSES ~~etc~~

2. 4985/752⁺ (27)

70%acc
~~55%~~
 ~ near
 over
 7m

wewih - play the recording
 (plwt)
 scso h
 wbwah
 (tufl) Zunhu
 night shrush - swallows like tone - gurgle
 3cbta
 2 gwa to 7/7
 Pt. is WAC reg. ≈ 5-6 yrs old
 undet = WAC/FOE
 7m

3. 827/5260' (28)

(rbpep shot)
 coming from?
 und = fern/shrub floor

3(SCSO) where are they
 (sing guard)
 (wbw)

4. 5220/817

SCSO (trees above 6m)
 und = same

wiwah (29)
 scso h
 wai h? or besi bunch like (house)
 Zunhu
 (a quiet descending song)
 und

5. 5305/902 (30) 96%acc

7m 7m
 not extremely forest-like
 under - fern/shrub floor 50

(obso) weety, rapid call - viree-like
 (wari a bksi) 2cbta
 unhu
 2wiwa h streh - listen again - plaintive song
 wsw

gawa???

6. 5400/927.5 (31)

~~ub wright~~ ~~marsh~~ - high clear almost serray notes
Zubur h
bech h
bhem h
(emto) h
90% ce x at 8m
underst for

7. 5490/939 (32)

4 chta 3/5 bc
3 emto 10/16
(very call) - marsh mid-forest
ruswa h
soso h

8. 5600/956.5 (33)

3 umah
siga h
(ceta)
wbaw h
upha - song 3 high thin notes
(baha) s
2 emto 3/17
soso h 6q
2 chta h
strel s 3/6 2/2
70% ce
underst for

B+2 Vegetation

(18) 8.5m und ^{grs} fern/dense shr
4+ (6) 11 50/50
5+ (6) 7m
3+ (1) 10 very woody / viney
4+ (4) 7 starfruit

Pt. 2 vegetation

75 trees, 6 sp. ave ht 13m
under grs 10% forest 90%
3 sp A 60%

1 sp - Inga 14m BSFL

4/15 CACHIL

ULTIMO DIA

1. 2050/605

SHADE PRUNING + COFF. PRUNING

15 tewa, 8 inga fl 7/2 (gli) 21 90 leaf-10
7 gli br 5/6 inga 75% FI
btgwa gl 6/7 br (13) guaz 5 FR 15 leaf
sowi s 5/6 br ban 2m
rthu s 4/6 gli cof ht 1.2m SFL
ruth s ino 35d
(sowi - singwa) PB6 7/5 herbs 5
rawah 90cc & 30

(mawa) ED = 350 Pine Forest

2. 2165/623.5

ED = same gli 7m 90L15,

brja s inga br 3/6 (18) inga 50% FI
2 aftwo gli vr 4/7 guaz 10 FR 80 leaf
rawah cof 6.5/1 cof ht 1.2m, 45k
rawa s 4/5 br gli 90cc 25

3. 2245 / 640.5 (44) ED = 250 Pine Forest
(pl leaves & ~~miss~~ ^{MISS} ~~lives~~ above)
reusa h col 0.5
(mebl)

ingra (2 not fl)
75% fl
gli 10% leaf 7m
90cc ~~20~~
902 - NONE
col 1m, - Fl, 35% d

4. 2258 / 700 ED = 175 Pine Forest
brsa s 3/7 gli br
mea - no fl

gli 10 leaf 6.5m
90cc 15
col 1.8, 5Fl, 80 d
herbs -

(PBG, 7/5) (45)

5. 2215 / 721 CICAODAS
3 bhsa h untk "menge" 4/7
rbaaz ingra fl 3/6
st mu & gli 3/4

(19)
→ untk fr (green) 3/4
ingra 50% fl
gli 15% leaf 6m
pimenta 7m
bana 1.7m
col 2.2m, 5Fl, 35 d
90cc 20

ED: 350m 20 Forest
meat.

6. 2345 / 741 ED = 275m 2 Forest
CICAODAS
(mebl)

(20)
ingra 70% fl
gli 20 leaf 6m
unk 80% fl
col 1.2 - fl 35 d
90cc 30

"T. won" - place of the huge (tepa)

7. 2340 / 757.5 (21) ED = ~~350~~ 20 Forest Mat
(mebl) 2/3 gli br
90cc 30
col 1.4m, - Fl, 50 d
ingra 65% fl
gli 4.5m 10 leaf

8. 2415 / 814 (22) ED = 400 20 Forest Mat
2 mebl ingra 7/8
90cc 50%
col ht 2.5m, - Fl, 65 d
ingra 70% fl
gli 15 leaf 4.5m

9. 2420 / 832 (23) ED = 475 - same
(untd)
90cc 25
- note
col ht 2.5, 5% fl, 65 d
ingra 60% (1 no flower)
gli 10% leaf







